# **DOCKER**

Student Name	Sai Harsha
Maximum Marks	2 Marks

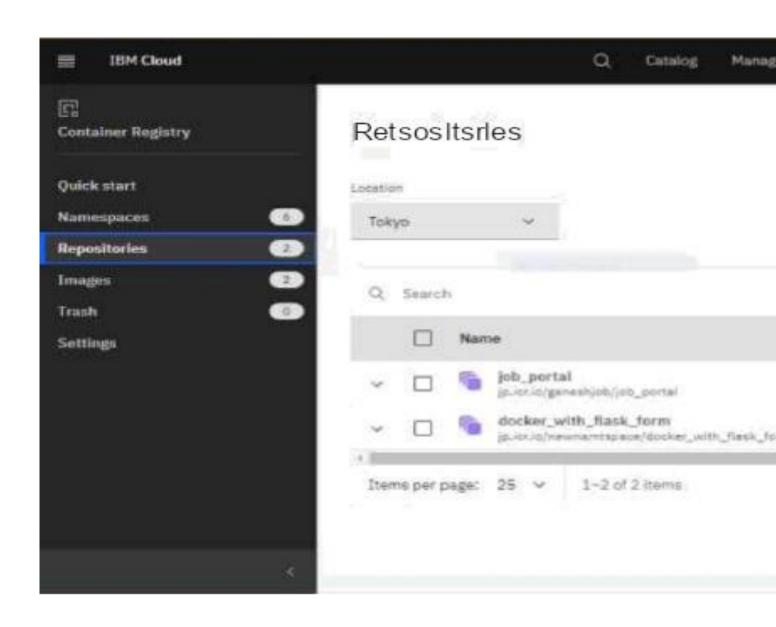
.

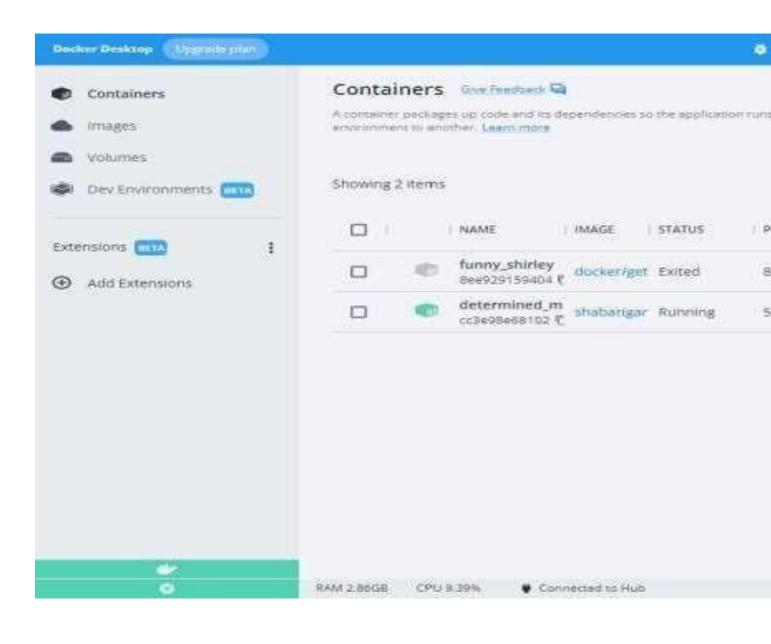
# **Question-1:**

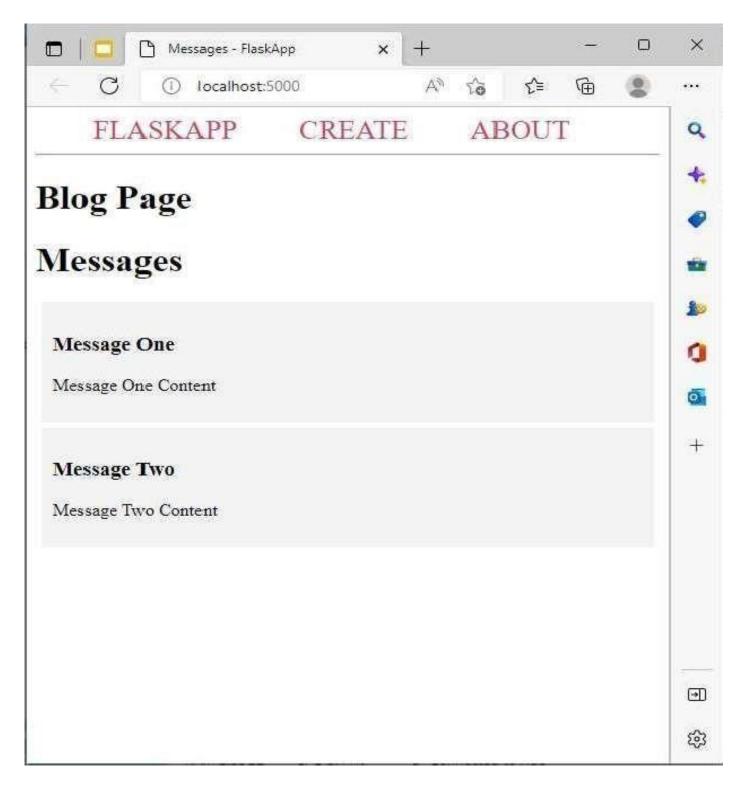
pull an image from docker hub and run it in docker playground. pull an image form docker hub

```
Command Prompt
Microsoft Windows [Version 10.8.19844.1766]
(c) Microsoft Corporation. All rights reserved.
C:\Users\ADMIN>docker push shabariganesan/docker_with_flask_form
Using default tag: latest
The push refers to repository [docker.io/shabariganesan/docker_with_flask_form]
An image does not exist locally with the tag: shabariganesan/docker_with_flask_form
C:\Users\ADMIN>docker pull shabariganesan/docker_with_flask_form
Using default tag: latest
latest: Pulling from shabariganesan/docker_with_flask_form
1671565cc8df: Pull complete
3e94d13e55e7: Pull complete
fa9c7528c685: Pull complete
53ad072f9cd1: Pull complete
d6b983117533: Pull complete
d8092d56ded5: Pull complete
c71afc637d59: Pull complete
864a18b3c704: Pull complete
4334b2fe8293: Pull complete
8944570703f4: Pull complete
f885911288d0: Pull complete
086f369ca59f: Pull complete
e113bd27b88e: Pull complete
Digest: sha256:c61f28873bf1c909786ce991b8b60cd976765077f344e34d50e6cce8cf8d95c3
Status: Downloaded newer image for shabariganesan/docker_with_flask_form:latest
docker.io/shabariganesan/docker_with_flask_form:latest
C:\Users\ADMIN>
```

runt it in docker playground







### **Question-2:**

Create a docker file for the jobportal application and deploy it in docker application.

Creating a docker file for the jobportal application

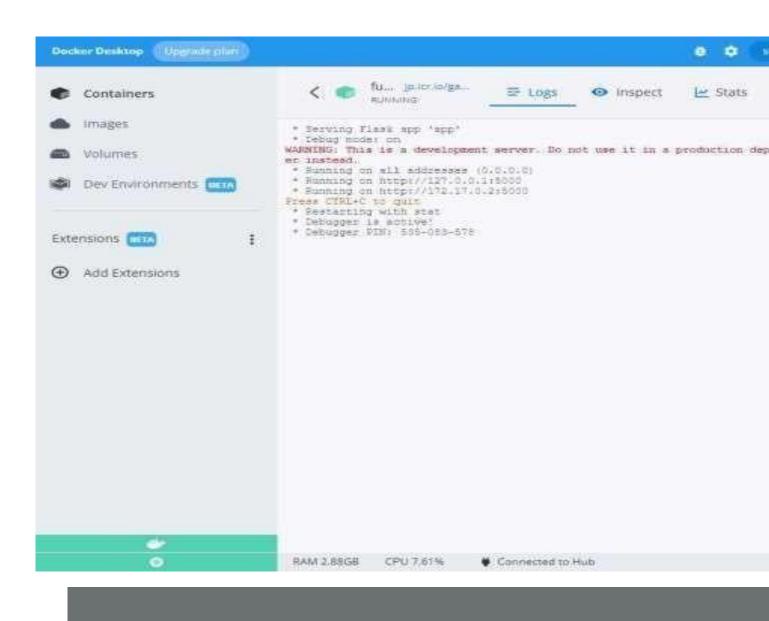
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                                     FROM python: 3.10.6
                      2 WORKDIR /app
                       3 COPY requirements.txt ./
                      4 RUN pip install -r requirements.txt
                       5 COPY . .
                                   EXPOSE 5000
                                      CMD ["python","./app.py"]
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deploy in in dokcer application

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Use 'docker scan' to run Seyk tests against Images to 'laid mainerabilities and learn how to 'la them

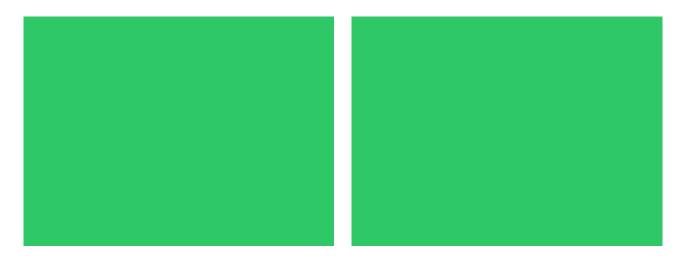
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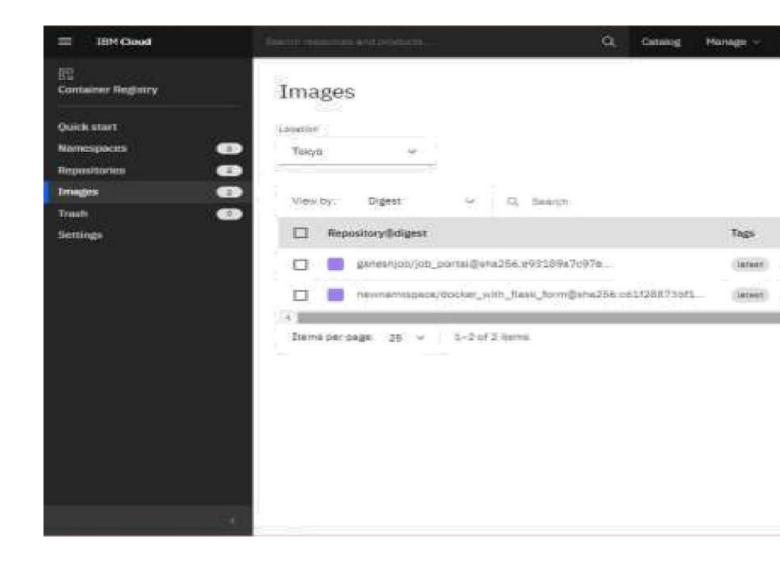


## **Question-3:**

Create albm container registry and deploy helloworld app or jobportalapp create a ibm container registry



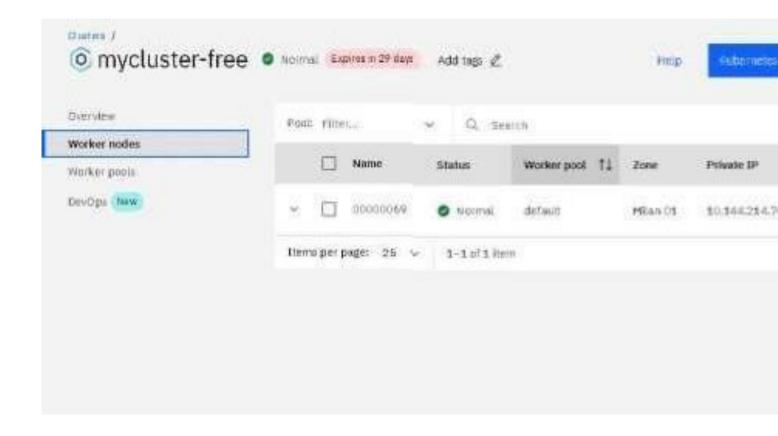
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### **Question-4:**

Create a kubernetes cluster in ibm cloud and deploy helloworld image or jobportal image and also expose the same app to run in noteport

Creating a kubernetes cluster in ibm cloud



## deploy helloworld image or jobportal image and also expose the same app to run in noteport



C//Windows/System32/emd.exe "Mindows system324kBectl expose deployment flask-app --type-NodePort --name-Flask service
he Service "flask service" is invalid: metadata.name: Invalid value: "flask service": a DMS-3835 label must consist of lower case alphanumentc characters or 'with an alphabetic character, and end with an alphanumentc character (e.g. "my-name", or "abc 123", regex used for validation is "[a-2]([-a-26-9]\*[a-26-9])2") (Windows)system32:Nubectl expose deployment flack app - type-NodePort - name-flack service he Service "flack service" is invalid: metadata name: Invalid value: "flack service"; a CMS-1825 label must consist of lower case alphanumenic characters or '-', start with an alphabetic character, and end with an alphanumenic character (e.g. 'my-mame', or 'mbc-123', regex used for validation is '(=-2)((-a-zH-9)\*(a-zH-9))') :\Mindows\system32>kubectl expose deployment flask-app - type-kodePort --name=flask servise he Service "flask\_service" is invalid: metsdata\_name: Invalid value: "flask\_service": a DNS-1895 label most consist of lower case alphanumeric characters or '-', start with an alphabetic character, and end with an alphanumeric character (e.g. 'my-name', or 'abc-123', regex used for validation is [a-z]([-a-zN-9]\*[a-zN-9])?') 'Mindows\systemIZ'kubect1 expose deployment flask-app -type-NodePort -room from server (Alreadylxists): services "flask-service" already exists -names flask-service \Mindows\system12> \Mindows\system12>Kubectl -n kubernetws-dashboard get depploy \Mindows\system12-kubectl -n kubernetes-dashboard get deploy resources found in kubernetes-dashboard namespace. \Windows\system32\kubert1 -n kubernetus-dashboard get deploy o resources found in kubernetes-dashboard namespace. :\Windows\system32>kubect1 proxy tarting to serve on 127,0,0,1:8001 \Mindows\system82>kubectl -n kubernetes-dashboard get deplou \Mindows\system32\kubectl -n kubernetes-dashboard get deploy resources found in kubernetes-dashboard namespace. \Mindows\system32>kubectl -n kubernetes-dashboard get pods o resources found in kubernetes-dashboard namespace. -Ndindows\system32>kubectl expose deployment Flask-app --type-NodeFort --rror from server (AlreadyExists): services "Flask-service" already exists -name-flask-service :\Mindows\system32>kubectl get ing
AMI CLASS HOSTS ADDRESS PORTS AGE
Task-app-ingress cnone> \* 80 276 :\Mindows\system32>kubect1 get avc AME TYPE CLUSTER-IP EXTERNAL-ID